

Partner: tekmar
 Model: tekmarNet4
 Device Type: HVAC



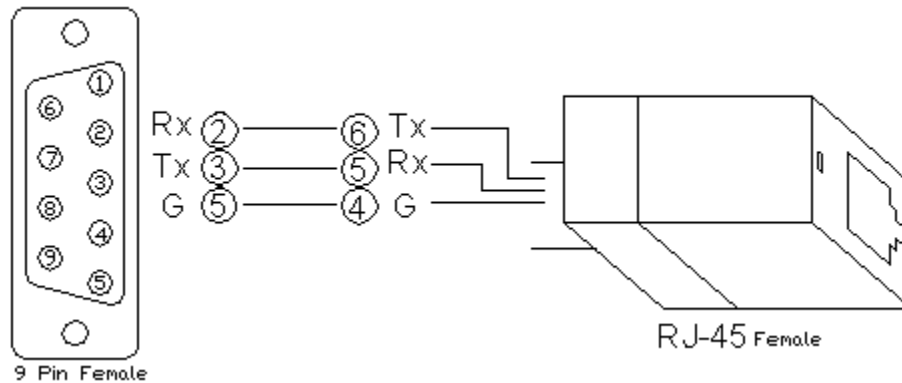
GENERAL INFORMATION

SIMPLWINDOWS NAME:	tekmar tekmarNet4 Feedback Processor v1.2
CATEGORY:	HVAC
VERSION:	1.2
SUMMARY:	This module controls the communication between the tekmar and the Crestron.
GENERAL NOTES:	<p>This module handles the communication between the tekmar tekmarNet4 HVAC thermostats and the Crestron tekmar tekmarNet4 Thermostat v1.2 modules. It provides control and true feedback for the automatic update state and the outdoor temperature.</p> <p>In order for the Crestron modules to function correctly, each of the To_Module_* outputs must be connected to only one tekmar tekmarNet4 Thermostat module. You also MUST pulse the Initialize input on the tekmar tekmarNet4 Feedback Processor v1.2 module after the processor has completely booted up. This will cause the tekmar tekmarNet4 Feedback v1.2 module to request the address from each tekmar tekmarNet4 Thermostat v1.2 module that is connected. If the Initialize input is not pulsed or if it is pulsed too early, the feedback may not work.</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM*, ST-COM, C2COM-2/3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A
CABLE DIAGRAM:	Custom

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Rear View of Connector



CONTROL:

<Enable/Disable>_Automatic_Updates	D	Pulse to enable and disable automatic updates.
Initialize	D	Pulse to get the automatic update state and outdoor temperature. This also gets the addresses from the tekmar tekmarNet4 Thermostat v1.2 modules.
Poll_Enable	D	Hold high to enable polling for the automatic update state and the current outdoor temperature every 30 seconds.
From_Device	S	Serial signal to be routed from a 2-way serial com port.
From_Modules	S	Serial signal to be routed from all tekmar tekmarNet4 Thermostat v1.2 modules.

FEEDBACK:

Automatic_Updates_Are_<Enabled/Disabled>	D	High to indicate the current automatic update state.
Current_Outdoor_Temperature_Value	A	Analog output indicating the current outdoor temperature. To be displayed using a digital gauge on a touch panel. XXX.X
To_Device	S	Serial signal to be routed to a 2-way serial com port.
To_Module_<1-24>	S	Serial signals to be routed to the From_Processor input on one of the tekmar tekmarNet4 Thermostat v1.2 modules.

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**TESTING:**

OPS USED FOR TESTING:	PRO2: 4.003.0015 MC3: 1.002.001
SIMPL WINDOWS USED FOR TESTING:	3.11.06
CRESTRON DB USED FOR TESTING:	30.01.004.00
DEVICE DB USED FOR TESTING:	40.01.004.00
SAMPLE PROGRAM:	tekmar tekmarNet4 Thermostat v1.2 Demo
REVISION HISTORY:	V. 1.0 – Original Release V. 1.1 – Fixed an issue with the tekmar tekmarNet4 Thermostat module where the reported set point was not always the new set point. v.1.2 – Added analog inputs to the tekmar tekmarNet4 Thermostat module to allow preset temperature values to be sent using an Analog Initialize Symbol.